

# Local Climatological Data



## MONTHLY SUMMARY

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FT. STANDARD TIME USED: EASTERN WBAN #13740

DATE	TEMPERATURE °F					DEGREE DAYS BASE 65°		WEATHER TYPES ON DATES OF OCCURRENCE	SNOW- ICE PELLETS OR ICE ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRES- SURE IN. ELEV. 177 FEET M.S.L.	WIND				SUNSHINE		SKY COVER TENTHS		DATE		
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JULY)	COOLING (SEASON ENDS WITH JAN.)			WATER EQUIVA- LENT IN.	SNOW, ICE PELLETS IN.		RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE DIRECTION	MINUTES	PERCENT OF POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT			
1	51	30	41	-2	35	24	0	1	0	0	0	29.80	05	4.8	4.9	11	E	488	83	8	5	22	
2	60	29	45	2	37	20	0	0	0	0	0	29.88	21	2.3	2.5	10	SW	421	72	5	4	2	
3	57	35	46	4	43	19	0	1	0	.09	0	29.88	15	2.7	5.2	11	S	189	34	10	8	3	
4	73	53	63	21	63	2	0	1	0	.48	0	29.51	21	12.8	13.1	22	SW	50	9	10	10	4	
5	57	38	48	6	49	17	0	1	0	.51	0	29.58	20	1.4	4.8	12	N	164	28	9	7	5	
6	68	36	52	11	40	13	0	2	0	0	0	29.81	22	5.2	6.0	15	SW	580	100	3	1	6	
7	65	33	49	8	44	16	0	1	0	0	0	30.08	18	4.1	4.2	12	SW	454	78	8	7	7	
8	77K	55	66K	26	62	0	1	1	0	0	0	29.84	21	8.9	6.8	18	SW	116	20	9	9	8	
9	75	34	55	15	57	10	0	1	0	1.49	0	29.46	26	4.3	12.4	29	W	0	0	10	9	8	
10	39	27	33	-7	20	32	0	0	0	0	0	30.04	31	8.6	9.9	15	NW	578	100	0	0	10	
11	38	23	31	-9	20	34	0	0	0	0	0	30.31	07	3.4	4.2	6	NE	337	58	7	7	11	
12	49	23	36	-3	26	29	0	0	0	0	0	30.18	32	.9	2.2	5	S	578	100	0	0	12	
13	61	27	44	9	27	21	0	0	0	0	0	29.84	23	7.3	8.5	21	SW	577	100	0	0	13	
14	45	26	36	-3	19	29	0	0	0	0	0	30.01	28	8.7	10.1	16	NW	576	100	0	1	14	
15	56	25	41	2	21	24	0	0	0	0	0	29.88	22	8.7	9.4	17	SW	488	85	2	3	15	
16	57	27	42	4	29	23	0	1	0	.18	0	29.84	19	5.8	6.0	14	SW	362	63	7	6	16	
17	52	33	43	5	29	22	0	1	0	0	0	29.87	29	14.7	15.7	24	NW	575	100	1	1	17	
18	51	29	40	2	19	25	0	0	0	0	0	29.88	24	10.0	10.4	19	SW	287	50	7	6	18	
19	52	30	41	3	25	24	0	0	0	0	0	29.81	22	2.5	4.0	8	SE	161	28	10	9	19	
20	55	39	47	8	39	18	0	2	0	.08	0	29.85	18	7.5	8.5	20	SW	0	0	10	10	20	
21	61	37	49	11	42	16	0	1	0	.04	0	29.37	27	12.3	13.4	24	NW	397	68	4	4	21	
22	49	28	38	0	25	27	0	0	0	0	0	29.88	22	4.0	5.2	10	SW	574	100	0	0	22	
23	55	25	40	3	28	25	0	0	0	0	0	29.85	18	2.7	3.5	6	SW	433	75	6	4	23	
24	54	29	42	5	40	23	0	1	0	.84	0	29.60	04	4.0	6.9	28	W	0	0	10	9	24	
25	53	33	43	6	31	22	0	0	0	0	0	29.51	26	13.0	13.7	23	W	574	100	1	1	25	
26	58	25	42	5	27	23	0	0	0	0	0	29.83	25	5.8	7.5	17	NW	486	86	5	5	26	
27	45	24	35	-2	19	30	0	0	0	0	0	30.03	32	9.7	10.1	15	NW	492	86	2	1	27	
28	36	20	28K	-9	18	37	0	0	0	0	0	30.28	02	6.2	6.9	16	N	559	97	6	3	28	
29	40	18K	29	-8	19	36	0	0	0	0	0	30.36	01	5.4	5.8	10	NE	576	100	1	1	29	
30	43	21	32	-5	23	33	0	0	0	0	0	30.36	16	1.6	1.6	6	S	328	57	10	10	30	
31	52	37	45	8	42	20	0	1	0	.09	0	30.23	19	.9	2.2	8	S	81	14	10	10	31	
SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	1	1	0	3.80	0	29.91	25	3.2	7.3	28	W	11501	FOR	171	151		
1683	948				684					PRECIPITATION	DEP.							DATE: 09	FOR	171	151		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.					>.01 INCH	0	0.58						DATE: 09	FOR	171	151		
54.3	30.6	42.5	3.5	33	-11.2					0	0.58							DATE: 09	FOR	171	151		
NUMBER OF DAYS		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
39C		-32		1290		1573		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW,		ICE PELLETS OR ICE AND DATE		AVG.		AVG.	
0		0		-220		220		CLEAR 13		PARTLY CLOUDY 8		CLOUDY 12				0				17905		64 5.5 4.9	

DECEMBER 1978 RICHMOND, VIRGINIA

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 † TRACE AMOUNT  
 ‡ ALSO ON AN EARLIER DATE, OR DATES.  
 HEAVY FOG - VISIBILITY 1/4 MILE OR LESS.  
 FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.  
 DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR

MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS.  
 FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.  
 ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

### SUMMARY BY HOURS

HOUR	SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE				RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.
			AIR °F	WET BULB °F	DEW PT. °F	WIND CHILL °F				
01	4	29.89	38	36	33	82	6.3	25	3.2	
04	4	29.91	38	36	33	84	6.5	25	2.9	
07	5	29.93	36	35	32	85	6.2	27	3.2	
10	6	29.97	44	40	34	71	9.3	26	3.8	
13	6	29.90	50	43	33	53	9.4	25	4.3	
16	5	29.88	51	43	32	53	8.2	25	3.9	
19	5	29.90	43	40	34	72	6.4	24	2.3	
22	5	29.91	41	38	33	76	6.3	26	3.2	

### HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DATE	A. M. HOUR ENDING AT												P. M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1																									1
2																									2
3																									3
4																									4
5		.05	.08	.07	.11	.09	.09	.02	T	T	T	.03	.02	T	T	.01	.01	T	T	.01	.10	.23	.07	5	
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31	T	T	.01	.01	.03	.01	.02	T	.01															31	

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